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SPECIFICATIONS FOR

PLUMBING
AND ELECTRIC WIRING

IN ADDITIONS TO

POST HOSPITAL AT FORT
SAM HOUSTON
TEXAS

IN ACCORDANCE WITH PLANS PREPARED IN THE
OFFICE OF THE SURGEON GENERAL
UNITED STATES ARMY

AUGUST, 1908

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SPECIFICATIONS

FOR

Plumbing and Electric Wiring in Additions to Post Hospital at Fort Sam Houston, Tex.

*In accordance with plans prepared in the Office of the Surgeon-General,
U. S. Army.*

[See general conditions attached to specifications for construction, which
govern where applicable.]

DESCRIPTION.

1. The work covered by these specifications embraces the fitting up of the following plumbing:

2. *Basement*.—Toilet room, dispensary, drains in areas and wall hydrants.

3. *First floor*.—Toilet room.

4. *Second floor*.—Toilet room.

5. The above to include all piping and connections to fixtures, also all hot and cold water supply, drain, and vent pipes, and connecting hot-water pipes to present heater in hospital.

6. All workmanship and material to be in strict accordance with the "General specifications for plumbing buildings" prepared in the office of the Quartermaster-General, U. S. Army, dated March 1, 1907, to which the specifications for this building refer, and of which they form a part, unless otherwise specified.

7. The drawings of fixtures accompanying the "General specifications" are intended to illustrate kind and style of fixture wanted, the quality of which is given in the said specifications.

8. The number and location of fixtures will be as shown on the plans.

9. The plumbing contractor will work in harmony with the other contractors on the building and will confer with and advise the contractor for construction as to the necessary preparations to be made for installing the plumbing, and will do his work at such times and places as not to delay any other work on the building as directed by the officer in charge.

10. A complete layout of the piping systems will be prepared by the plumber and submitted to the officer in charge for his approval before starting the work.

NOTE.—All sewer pipes, water pipes, etc., are to extend 5 feet beyond the building line. From these points they are continued by the Quartermaster's Department under separate contract and the cost is not to be included in this contract.

PLUMBING.

11. *Soil pipes*.—The main soil pipes in building to be 4-inch cast iron.

12. *Supply pipes*.—The main supply in buildings to be 1-inch extra strong pipe.

13. *Painting*.—All exposed pipes, not nickel plated, to be cleaned, given coat of shellac, and finished with aluminum bronze.

FIXTURES, ETC.

14. Bath tubs, Type A-1.

15. Water-closets, Type B-1, with tank of Type C-1 for each.

16. Wash basins in toilet rooms, Type E-5.

17. Showers, Type G, with Italian marble stalls.

18. Urinals, Type F-4.

19. Slop sinks, Type K-3.

20. Dispensary sink, Type H-4, except that it will be enameled iron and supported on legs instead of brackets.

21. Two wall hydrants for each wing, Type P, to be placed where directed.

22. Area traps will be a 3-inch cesspool, with perforated cover, and P trap directly under, without bell trap.

TILE AND MARBLE WORK.

23. *Tile floors*.—Floors of toilet rooms, first and second stories, to be of 2-inch hexagonal vitreous white tiles, with borders of one row of 3-inch by 6-inch glazed white tiles.

24. *Tile wainscoting*.—Wainscot all rooms having tile floors; tile will be 4 feet high; tile to be 3-inch by 6-inch glazed white tile, with coved base and rounded top, coved angles at corners and rounded return at openings. Tile wainscoting will not be required behind closet stalls, shower stalls, urinal stalls, and bathroom partitions provided for hereafter.

25. Furnish for all toilets Italian marble partitions 6 feet 6 inches high and $1\frac{1}{8}$ inches thick around bath tubs, showers, water-closets, slop sinks, urinals, etc., with wainscoting back of all fixtures, in stalls 1 inch thick, as indicated on drawings. All exposed surfaces to be polished. Front stiles for openings and all fronts to be $1\frac{1}{4}$ inches thick, supported on nickel-plated brass legs, and to have nickel-plated brass rails with supports on top. All rails, standards, bolts, angles, clamps, etc., to be nickel-plated brass. Each stall for closets and showers to be provided with two $3\frac{1}{2}$ -inch nickel-plated brass double hooks secured to marble. All doors to be white pine (see painting), finished cream white, with solid panels, hung with single-acting nickel-plated brass spring hinges, and be secured with bolts, and door stops rubber mounted, all in accordance with detail drawings.

SPECIFICATIONS

FOR INSTALLING CONDUIT, WIRING, SWITCHES, WATT-METER, AND FIXTURES, AND MAKING SERVICE CONNECTIONS FOR ELECTRIC LIGHTING IN TWO NEW ADDITIONS TO POST HOSPITAL AT FORT SAM HOUSTON, TEXAS.

(See "General Conditions," which will govern for this work where applicable.)

DESCRIPTION.

1. The work covered by these specifications consists in furnishing all material and installing in two new wings to post hospital a three-wire to a two-wire wiring system for incandescent lights, with outlets, boxes, switches, distribution tablets, wattmeter, and fixtures, complete and ready for use; and also making the necessary changes in service connections to building.

2. All workmanship and material shall be in strict accordance with General Electrical Specifications No. 4, to which these specifications refer, and which form a part of these specifications.

3. The drawings of apparatus accompanying General Electrical Specifications No. 4 are intended to illustrate the kind and style of apparatus wanted, the quality of which is given in the specifications.

4. The electrical contractor must work in harmony with the other contractors on the building, and must confer with and advise the contractor for construction as to the necessary preparation to be made for installing electrical work, and must do his work as directed by the officer in charge, and at such time and place as not to interfere with or delay any other work on the building.

5. The electrical contractor must prepare a sketch plan of the complete layout of the work and submit it to the officer in charge for his criticism and approval before starting the work.

INTERIOR WORK.

6. Wire each of the two new wings to building for electric lights. Place in first story of each of the two new wings where directed a Type C-19 panel board inclosed in a Type C-20 panel board cabinet with Type C-21 cover, having a steel panel in cover instead of glass panel as shown. Cabinet shall be finished in black enamel, baked on.

7. Furnish and install in partition of hall next to skylight room in main building, as directed, a three-wire Type C-19 special panel board inclosed in a Type C-20 panel board cabinet with Type C-21 cover, having a steel panel in door instead of glass panel as shown. Distribution panel shall have special meter connections so arranged that current consumed in proposed new barracks can be measured separately from the current consumed in remainder of building. Panel board shall have six circuits, two of which shall be left vacant. One circuit shall supply current for present main line switch in main building. Two of the remaining circuits shall supply current for the panel boards in the two new wings to be added to hospital. The remaining circuit shall provide current for proposed barracks in rear of hospital. This circuit shall be provided with meter outlet near main distribution box. Wattmeter for this circuit will be furnished and installed by contractor for wiring new barracks, but feeder for new barracks shall be installed by this contractor, the feeder being run to point in present building most convenient for attachment of feeder from new barracks, exact point to be designated by the officer in charge.

8. Furnish and install a triple-pole, Type C-22, main line switch, with Type C-23 fuses near bull's-eye window above ward roof in east gable of main building where directed.

9. Connect new main line switch with new distribution tablet in main building, new distribution tablet in main building with old main line switch and with the two new distribution tablets in new wings of building, and run circuit, as described above, for new barracks, using Type II conductor inclosed in stand-

ard; stiff steel conduit for all this work. Wires for all of these feeders shall be of sufficient size to provide 2,000 circular mils for each ampere flowing when all lights supplied by these feeders are burning.

10. Furnish and install at new distribution tablet in main building a three-wire wattmeter of ample capacity, and connected to measure all current consumed in present building and in two new wings to be constructed. Wattmeter shall be similar to those now in use at the post.

11. Remove present wattmeter from building and deliver it to the post quartermaster. Place closed cover on outlet box used for present meter connections after having properly spliced, soldered, and taped the connections therein.

12. Furnish a duplicate set of fuses for all tablets to be installed in building under these specifications.

FIXTURES.

13. Furnish and install in each half of new ward addition to post hospital the following fixtures:

Two verandas.—Six Type F-10 fixtures with A shades.

Two loggias.—Two Type F-15 fixtures with pagoda shades.

Two wards.—Eight Type F-51 fixtures with D shades; 22 Type F-24 brackets with D shades.

Two halls.—Two Type F-15 fixtures with pagoda shades.

Two toilets.—Two Type F-15 fixtures with pagoda shades; 2 Type F-27 brackets with wire guards.

Two ward masters' rooms.—Two Type F-24 brackets with D shades.

BASEMENT OF RIGHT WING ONLY.

Two halls.—One Type F-15 fixture with pagoda shade; 1 Type F-19 fixture with pagoda shade.

Attendants' room.—Two one-light cord drops with D shades.

Dispensary.—Two Type F-53 fixtures with D shades; 4 Type F-24 brackets with D shades.

Toilet.—One Type F-27 bracket with D shade.

Five small storerooms.—Five one-light cord drops with wire guards.

Rear hall.—One Type F-15 fixture with pagoda shade.

Boiler room.—One Type F-15 fixture with pagoda shade.

Porches.—Three Type F-8 fixtures

BASEMENT OF LEFT WARD ONLY.

Three small rooms.—Four Type F-15 fixtures with wire guards.

One large room.—Four Type F-15 fixtures with pagoda shades.

A shades to be 6 ½-inch holophane spheres.

D shades to be 6-inch No. 256; Phoenix Glass Company catalogue shades or equal.

Wire guards to be heavy "Hold Fast" guards or equal.

SWITCHES.

14. Locate wall switches to control lights as follows:

Six switches to control lights on verandas, these switches to be placed inside building where directed.

Two switches to control lights in loggias.

One switch to control each outlet for ceiling lights in each of two wards.

One switch to control ceiling lights in each of three halls.

One switch to control ceiling lights in each of two toilets.

One switch to control each outlet on porches of basement of right wing.

Two switches to control ceiling outlets in dispensary in basement of right wing.

One switch to control lights in each of three halls in basement of right wing.

EXTERIOR WORK.

15. Construct a pole line connecting new main-line switch in building with the secondaries of the post electric-light line as directed by the officer in charge.

16. Poles shall be of best cedar, straight, well proportioned, draw shaved, not less than 35 feet in length, must have a top diameter of not less than $7\frac{1}{2}$ inches and a butt diameter not less than 12 inches, must be planted 5 feet 6 inches in the ground, must not be spaced more than 100 feet apart, and poles and cross arms must be painted to match color of present electric-light poles in post.

17. Poles must be guyed if necessary to hold them straight, using 8-inch Stombaugh anchors or equal.

18. Insulators, guys, cross arms, and wall brackets shall be similar to those now installed at the post.

19. Service connections shall consist of three No. 4 B. & S. gauge Type I conductors.

NOTE.—Bidders are requested to state the cost of the wiring and the cost of the fixtures as separate items in their proposals, as each is paid for from a different appropriation.

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